

The Ohio State University

Improving Residual Control of Marestalk with Metribuzin

Trial ID: 13MVS Location: Trial Year:
 Protocol ID: 13MVS Investigator: Dr. Mark M. Loux
 Project ID: 13MVS Study Director:
 Sponsor Contact:

Crop 1: GLXMA Glycine max
Variety: Asgrow 3533
Description: Round Up Ready

Crop Description
 Soybean
BBCH Scale: BSOY

Planting Rate, Unit: 135000 S/A
Depth, Unit: 0.75 IN
Row Spacing, Unit: 15 IN
Soil Temperature, Unit: 54 F
Soil Moisture: SLIWET slightly wet, moist
Seed Bed: FINTRA fine/trashy

Planting Date: Apr-27-2013
Planting Method: PLANTD planted
Planting Equipment: PP Plot Planter
Emergence Date: May-17-2013

Pest Description

Pest 1 Type: W **Code:** LAMPU Lamium purpureum
Common Name: Purple deadnettel

Pest 2 Type: W **Code:** STEME Stellaria media
Common Name: Common chickweed

Pest 3 Type: W **Code:** ERYRE Erysimum repandum
Common Name: Bushy wallflower

Pest 4 Type: W **Code:** ERPSS Erophila sp.
Common Name: Whitlowgrass

Pest 5 Type: W **Code:** THLSS Thlaspi sp.
Common Name: Pennycress

Pest 6 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 7 Type: W **Code:** VERAR Veronica arvensis
Common Name: Corn speedwell

Pest 8 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

Site and Design

Treated Plot Width: 6.67 FT
Treated Plot Length: 30 FT
Treated Plot Area: 200.1 FT² **Treatments:** 22
Replications: 3

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: NOTILL no-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: F-9 West
% OM: 2 **Texture:** SICL silty clay loam
pH: 6.2 **Soil Name:** Kokomo
CEC: 9.7 **Fert. Level:** G good
Soil Drainage: G good

Application Description

	A	B
Application Date:	Apr-3-2013	May-29-2013
Appl. Start Time:	12:00 P.M	8:00 PM
Appl. Stop Time:	12:30 PM	8:30 AM
Application Method:	SPRAY	SPRAY
Application Timing:	28 EPP	POST
Application Placement:	BROFOL	BROFOL
Applied By:	Dobbels	DOBBELS
Air Temperature, Unit:	41 F	79 F
% Relative Humidity:	29	51
Wind Velocity, Unit:	3.6 MPH	7 MPH
Wind Direction:	NW	SW
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	39 F	80 F
Soil Moisture:	GOOD	DRY
% Cloud Cover:	10	33
Next Moisture Occurred On:	Apr-10-2013	Jun-1-2013

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Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		11 100
Height, Unit:		3 IN
Height Minimum, Maximum:		2 3

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	LAMPU W	LAMPU W
Stage Majority, Percent:	19	100
Diameter, Unit:	1 IN	
Height, Unit:	1 IN	
Height Minimum, Maximum:	0.5 1.5	
Density, Unit:	14.6 M2	
Pest 2 Code, Type, Scale:	STEME W	STEME W
Stage Majority, Percent:	19	100
Diameter, Unit:	1.5 IN	
Height, Unit:	1 IN	
Height Minimum, Maximum:	0.5 1	
Density, Unit:	16 M2	
Pest 3 Code, Type, Scale:	ERYRE W	ERYRE W
Stage Majority, Percent:	60	80
Stage Minimum, Percent:	59	20
Stage Maximum, Percent:	60	80
Diameter, Unit:	2 IN	
Height, Unit:	1 IN	
Height Minimum, Maximum:	0.5 1	
Density, Unit:	2.6 M2	
Pest 4 Code, Type, Scale:	ERPSS W	ERPSS W
Stage Majority, Percent:	60	100
Diameter, Unit:	1 IN	
Height, Unit:	1 IN	
Height Minimum, Maximum:	1 1	
Pest 5 Code, Type, Scale:	THLSS W	THLSS W
Stage Majority, Percent:	19	100
Diameter, Unit:	1 IN	
Height, Unit:	1 IN	
Height Minimum, Maximum:	1 1.5	
Pest 6 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		16 100
Height, Unit:		8 IN
Height Minimum, Maximum:		6 8
Density, Unit:	10.6 M2	
Pest 7 Code, Type, Scale:	VERAR W	VERAR W
Density, Unit:	1.3 M2	
Pest 8 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		14 100
Height, Unit:		5 IN
Height Minimum, Maximum:		4 6
Density, Unit:	30.5 M2	

Application Equipment

	A	B
Appl. Equipment:	Backpack	TRACTOR
Equipment Type:	SPRBAC	SPTRMO
Operation Pressure, Unit:	48 PSI	33 PSI
Nozzle Type:	AIXR	DG
Nozzle Size:	110015	11002
Nozzle Spacing, Unit:	18 IN	20 IN
Boom Length, Unit:	6 FT	10 FT
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	6 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 gal/ac	15 gal/ac
Mix Size, Unit:	1 Liters	10 gallons
Propellant:	COMCO2	PUMROL

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Pest Code	STEME	LAMPU	SETFA	AMBTR	ERICA	ERICA					
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA					
Rating Date	Apr-26-2013	Apr-26-2013	May-28-2013	May-28-2013	May-28-2013	Jun-25-2013					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%	%					
Days After First/Last Applic.	23 23	23 23	55 55	55 55	55 55	83 27					
Plant-Eval Interval	-1 DP-1	-1 DP-1	31 DP-1	31 DP-1	31 DP-1	59 DP-1					
Days After Emergence	-21 DE-1	-21 DE-1	11 DE-1	11 DE-1	11 DE-1	39 DE-1					
Trt-Eval Interval	23 DA-A	23 DA-A	55 DA-A	55 DA-A	55 DA-A	27 DA-B					
Trt Treatment	Other	Other	Growth	Appl							
No. Name	Rate	Rate	Unit	Stage	Code	1	2	3	4	5	6
1 Valor SX	2.5 oz/a			28 EPP A		100	97	67	20	88	57
1 Roundup PowerMax	32 oz/a			28 EPP A							
1 2,4-D	1 pt/a			28 EPP A							
1 N-PAK AMS	1.5 qt/a			28 EPP A							
1 Roundup Power Max	22 oz/a			B							
1 N-PAK AMS	1.5 qt/a			B							
2 Spartan	5.63 oz/a			28 EPP A		99	93	40	10	97	63
2 Roundup PowerMax	32 oz/a			28 EPP A							
2 2,4-D	1 pt/a			28 EPP A							
2 N-PAK AMS	1.5 qt/a			28 EPP A							
3 Sharpen	1.5 oz/a			28 EPP A		99	85	17	33	100	70
3 Roundup PowerMax	32 oz/a			28 EPP A							
3 2,4-D	1 pt/a			28 EPP A							
3 N-PAK AMS	1.5 qt/a			28 EPP A							
4 Sencor 75DF	6 oz/a			28 EPP A		80	80	0	7	37	17
4 Roundup PowerMax	32 oz/a			28 EPP A							
4 2,4-D	1 pt/a			28 EPP A							
4 N-PAK AMS	1.5 qt/a			28 EPP A							
5 Sencor 75DF	10 oz/a			28 EPP A		100	100	10	7	53	27
5 Roundup PowerMax	32 oz/a			28 EPP A							
5 2,4-D	1 pt/a			28 EPP A							
5 N-PAK AMS	1.5 qt/a			28 EPP A							
6 Clarity	8 oz/a			28 EPP A		95	100	10	7	43	23
6 Roundup PowerMax	32 oz/a			28 EPP A							
6 N-PAK AMS	1.5 qt/a			28 EPP A							
7 Clarity	16 oz/a			28 EPP A		100	93	7	23	30	30
7 Roundup PowerMax	32 oz/a			28 EPP A							
7 N-PAK AMS	1.5 qt/a			28 EPP A							
8 Valor SX	2.5 oz/a			28 EPP A		92	95	57	20	98	47
8 Sencor 75DF	6 oz/a			28 EPP A							
8 Roundup PowerMax	32 oz/a			28 EPP A							
8 2,4-D	1 pt/a			28 EPP A							
8 N-PAK AMS	1.5 qt/a			28 EPP A							
9 Valor SX	2.5 oz/a			28 EPP A		100	100	50	33	92	53
9 Sencor 75DF	10 oz/a			28 EPP A							
9 Roundup PowerMax	32 oz/a			28 EPP A							
9 2,4-D	1 pt/a			28 EPP A							
9 N-PAK AMS	1.5 qt/a			28 EPP A							

t=Mean descriptions are reported in transformed data units, and are not de-transformed.
 Missing data estimates are included in columns: Yates=4,5

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Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Days After First/Last Applic.	23 23	23 23	55 55	55 55	55 55	83 27
Plant-Eval Interval	-1 DP-1	-1 DP-1	31 DP-1	31 DP-1	31 DP-1	59 DP-1
Days After Emergence	-21 DE-1	-21 DE-1	11 DE-1	11 DE-1	11 DE-1	39 DE-1
Trt-Eval Interval	23 DA-A	23 DA-A	55 DA-A	55 DA-A	55 DA-A	27 DA-B

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	6
10	Valor SX	2.5 oz/a		28 EPP A		99	83	58	49	100	97
10	Sencor 75DF	6 oz/a		28 EPP A							
10	Sharpen	1.5 oz/a		28 EPP A							
10	Roundup PowerMax	32 oz/a		28 EPP A							
10	2,4-D	1 pt/a		28 EPP A							
10	N-PAK AMS	1.5 qt/a		28 EPP A							
11	Valor SX	2.5 oz/a		28 EPP A		96	88	37	27	97	85
11	Sharpen	1.5 oz/a		28 EPP A							
11	Roundup PowerMax	32 oz/a		28 EPP A							
11	2,4-D	1 pt/a		28 EPP A							
11	N-PAK AMS	1.5 qt/a		28 EPP A							
12	Valor SX	2.5 oz/a		28 EPP A		93	90	50	43	83	53
12	Clarity	8 oz/a		28 EPP A							
12	Roundup PowerMax	32 oz/a		28 EPP A							
12	N-PAK AMS	1.5 qt/a		28 EPP A							
13	Valor SX	2.5 oz/a		28 EPP A		100	100	53	37	87	43
13	Clarity	16 oz/a		28 EPP A							
13	Roundup PowerMax	32 oz/a		28 EPP A							
13	N-PAK AMS	1.5 qt/a		28 EPP A							
14	Spartan	5.63 oz/a		28 EPP A		87	87	27	0	98	47
14	Sencor 75DF	6 oz/a		28 EPP A							
14	Roundup PowerMax	32 oz/a		28 EPP A							
14	2,4-D	1 pt/a		28 EPP A							
14	N-PAK AMS	1.5 qt/a		28 EPP A							
15	Spartan	5.63 oz/a		28 EPP A		93	87	27	10	98	30
15	Sencor 75DF	10 oz/a		28 EPP A							
15	Roundup PowerMax	32 oz/a		28 EPP A							
15	2,4-D	1 pt/a		28 EPP A							
15	N-PAK AMS	1.5 qt/a		28 EPP A							
16	Spartan	5.63 oz/a		28 EPP A		73	73	37	20	95	80
16	Sencor 75DF	6 oz/a		28 EPP A							
16	Sharpen	1.5 oz/a		28 EPP A							
16	Roundup PowerMax	32 oz/a		28 EPP A							
16	2,4-D	1 pt/a		28 EPP A							
16	N-PAK AMS	1.5 qt/a		28 EPP A							
17	Spartan	5.63 oz/a		28 EPP A		100	93	33	27	100	100
17	Sharpen	1.5 oz/a		28 EPP A							
17	Roundup PowerMax	32 oz/a		28 EPP A							
17	2,4-D	1 pt/a		28 EPP A							
17	N-PAK AMS	1.5 qt/a		28 EPP A							
18	Spartan	5.63 oz/a		28 EPP A		94	83	40	33	97	37
18	Clarity	8 oz/a		28 EPP A							
18	Roundup PowerMax	32 oz/a		28 EPP A							
18	N-PAK AMS	1.5 qt/a		28 EPP A							

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Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Days After First/Last Applic.	23 23	23 23	55 55	55 55	55 55	83 27				
Plant-Eval Interval	-1 DP-1	-1 DP-1	31 DP-1	31 DP-1	31 DP-1	59 DP-1				
Days After Emergence	-21 DE-1	-21 DE-1	11 DE-1	11 DE-1	11 DE-1	39 DE-1				
Trt-Eval Interval	23 DA-A	23 DA-A	55 DA-A	55 DA-A	55 DA-A	27 DA-B				
Trt Treatment No. Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	6
19 Spartan	5.63 oz/a		28 EPP A		95	87	40	27	93	50
19 Clarity	16 oz/a		28 EPP A							
19 Roundup PowerMax	32 oz/a		28 EPP A							
19 N-PAK AMS	1.5 qt/a		28 EPP A							
20 Sencor 75DF	10 oz/a		28 EPP A		87	92	10	17	100	53
20 Sharpen	1.5 oz/a		28 EPP A							
20 Roundup PowerMax	32 oz/a		28 EPP A							
20 2,4-D	1 pt/a		28 EPP A							
20 N-PAK AMS	1.5 qt/a		28 EPP A							
21 Sencor 75DF	10 oz/a		28 EPP A		96	87	0	43	100	30
21 Clarity	8 oz/a		28 EPP A							
21 Roundup PowerMax	32 oz/a		28 EPP A							
21 N-PAK AMS	1.5 qt/a		28 EPP A							
22 Sencor 75DF	10 oz/a		28 EPP A		88	92	20	43	93	27
22 Clarity	16 oz/a		28 EPP A							
22 Roundup PowerMax	32 oz/a		28 EPP A							
22 N-PAK AMS	1.5 qt/a		28 EPP A							
LSD (P=.05)					14.5t	14.4	27.2	26.1	16.8	19.7
Standard Deviation					8.8t	8.7	16.5	15.8	10.2	11.9
CV					11.16	9.64	52.62	64.95	11.91	23.51
Bartlett's X2					9.831	9.198	12.081	16.371	33.446	10.489
P(Bartlett's X2)					0.83	0.905	0.882	0.693	0.004*	0.915
Skewness					-0.3561	-0.5333	0.1025	0.3434	-1.7405*	0.5041
Kurtosis					-1.4972*	-1.0841	-1.1343	-0.5375	1.6932*	-0.5165
Replicate F					0.636	3.020	2.769	6.183	2.643	1.006
Replicate Prob(F)					0.5343	0.0595	0.0742	0.0045	0.0835	0.3745
Treatment F					3.326	1.976	4.433	2.383	14.447	11.806
Treatment Prob(F)					0.0004	0.0299	0.0001	0.0086	0.0001	0.0001

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Pest Code AMBTR
 Crop Code GLXMA
 Rating Date Jun-25-2013
 Rating Type CONTRO
 Rating Unit %
 Days After First/Last Applic. 83 27
 Plant-Eval Interval 59 DP-1
 Days After Emergence 39 DE-1
 Trt-Eval Interval 27 DA-B

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
						7
1	Valor SX	2.5 oz/a		28 EPP A		58
1	Roundup PowerMax	32 oz/a		28 EPP A		
1	2,4-D	1 pt/a		28 EPP A		
1	N-PAK AMS	1.5 qt/a		28 EPP A		
1	Roundup Power Max	22 oz/a			B	
1	N-PAK AMS	1.5 qt/a			B	
2	Spartan	5.63 oz/a		28 EPP A		43
2	Roundup PowerMax	32 oz/a		28 EPP A		
2	2,4-D	1 pt/a		28 EPP A		
2	N-PAK AMS	1.5 qt/a		28 EPP A		
3	Sharpen	1.5 oz/a		28 EPP A		43
3	Roundup PowerMax	32 oz/a		28 EPP A		
3	2,4-D	1 pt/a		28 EPP A		
3	N-PAK AMS	1.5 qt/a		28 EPP A		
4	Sencor 75DF	6 oz/a		28 EPP A		27
4	Roundup PowerMax	32 oz/a		28 EPP A		
4	2,4-D	1 pt/a		28 EPP A		
4	N-PAK AMS	1.5 qt/a		28 EPP A		
5	Sencor 75DF	10 oz/a		28 EPP A		33
5	Roundup PowerMax	32 oz/a		28 EPP A		
5	2,4-D	1 pt/a		28 EPP A		
5	N-PAK AMS	1.5 qt/a		28 EPP A		
6	Clarity	8 oz/a		28 EPP A		47
6	Roundup PowerMax	32 oz/a		28 EPP A		
6	N-PAK AMS	1.5 qt/a		28 EPP A		
7	Clarity	16 oz/a		28 EPP A		47
7	Roundup PowerMax	32 oz/a		28 EPP A		
7	N-PAK AMS	1.5 qt/a		28 EPP A		
8	Valor SX	2.5 oz/a		28 EPP A		27
8	Sencor 75DF	6 oz/a		28 EPP A		
8	Roundup PowerMax	32 oz/a		28 EPP A		
8	2,4-D	1 pt/a		28 EPP A		
8	N-PAK AMS	1.5 qt/a		28 EPP A		
9	Valor SX	2.5 oz/a		28 EPP A		30
9	Sencor 75DF	10 oz/a		28 EPP A		
9	Roundup PowerMax	32 oz/a		28 EPP A		
9	2,4-D	1 pt/a		28 EPP A		
9	N-PAK AMS	1.5 qt/a		28 EPP A		

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 Plant-Eval Interval 59 DP-1
 Days After Emergence 39 DE-1
 Trt-Eval Interval 27 DA-B

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	7
10	Valor SX	2.5 oz/a		28 EPP A		60
10	Sencor 75DF	6 oz/a		28 EPP A		
10	Sharpen	1.5 oz/a		28 EPP A		
10	Roundup PowerMax	32 oz/a		28 EPP A		
10	2,4-D	1 pt/a		28 EPP A		
10	N-PAK AMS	1.5 qt/a		28 EPP A		
11	Valor SX	2.5 oz/a		28 EPP A		33
11	Sharpen	1.5 oz/a		28 EPP A		
11	Roundup PowerMax	32 oz/a		28 EPP A		
11	2,4-D	1 pt/a		28 EPP A		
11	N-PAK AMS	1.5 qt/a		28 EPP A		
12	Valor SX	2.5 oz/a		28 EPP A		40
12	Clarity	8 oz/a		28 EPP A		
12	Roundup PowerMax	32 oz/a		28 EPP A		
12	N-PAK AMS	1.5 qt/a		28 EPP A		
13	Valor SX	2.5 oz/a		28 EPP A		20
13	Clarity	16 oz/a		28 EPP A		
13	Roundup PowerMax	32 oz/a		28 EPP A		
13	N-PAK AMS	1.5 qt/a		28 EPP A		
14	Spartan	5.63 oz/a		28 EPP A		40
14	Sencor 75DF	6 oz/a		28 EPP A		
14	Roundup PowerMax	32 oz/a		28 EPP A		
14	2,4-D	1 pt/a		28 EPP A		
14	N-PAK AMS	1.5 qt/a		28 EPP A		
15	Spartan	5.63 oz/a		28 EPP A		20
15	Sencor 75DF	10 oz/a		28 EPP A		
15	Roundup PowerMax	32 oz/a		28 EPP A		
15	2,4-D	1 pt/a		28 EPP A		
15	N-PAK AMS	1.5 qt/a		28 EPP A		
16	Spartan	5.63 oz/a		28 EPP A		47
16	Sencor 75DF	6 oz/a		28 EPP A		
16	Sharpen	1.5 oz/a		28 EPP A		
16	Roundup PowerMax	32 oz/a		28 EPP A		
16	2,4-D	1 pt/a		28 EPP A		
16	N-PAK AMS	1.5 qt/a		28 EPP A		
17	Spartan	5.63 oz/a		28 EPP A		55
17	Sharpen	1.5 oz/a		28 EPP A		
17	Roundup PowerMax	32 oz/a		28 EPP A		
17	2,4-D	1 pt/a		28 EPP A		
17	N-PAK AMS	1.5 qt/a		28 EPP A		
18	Spartan	5.63 oz/a		28 EPP A		53
18	Clarity	8 oz/a		28 EPP A		
18	Roundup PowerMax	32 oz/a		28 EPP A		
18	N-PAK AMS	1.5 qt/a		28 EPP A		

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Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	7
19	Spartan	5.63 oz/a		28 EPP A		30
19	Clarity	16 oz/a		28 EPP A		
19	Roundup PowerMax	32 oz/a		28 EPP A		
19	N-PAK AMS	1.5 qt/a		28 EPP A		
20	Sencor 75DF	10 oz/a		28 EPP A		43
20	Sharpen	1.5 oz/a		28 EPP A		
20	Roundup PowerMax	32 oz/a		28 EPP A		
20	2,4-D	1 pt/a		28 EPP A		
20	N-PAK AMS	1.5 qt/a		28 EPP A		
21	Sencor 75DF	10 oz/a		28 EPP A		57
21	Clarity	8 oz/a		28 EPP A		
21	Roundup PowerMax	32 oz/a		28 EPP A		
21	N-PAK AMS	1.5 qt/a		28 EPP A		
22	Sencor 75DF	10 oz/a		28 EPP A		30
22	Clarity	16 oz/a		28 EPP A		
22	Roundup PowerMax	32 oz/a		28 EPP A		
22	N-PAK AMS	1.5 qt/a		28 EPP A		

LSD (P=.05) 32.3
 Standard Deviation 19.6
 CV 48.71
 Bartlett's X2 16.767
 P(Bartlett's X2) 0.606
 Skewness 0.3479
 Kurtosis 0.4843

Replicate F 0.785
 Replicate Prob(F) 0.4626
 Treatment F 1.168
 Treatment Prob(F) 0.3253

The Ohio State University

Improving Residual Control of Marestalk with Metribuzin

Trial ID: 13MVS Location: Trial Year:
Protocol ID: 13MVS Investigator: Dr. Mark M. Loux
Project ID: 13MVS Study Director:
Sponsor Contact:

Pest Code

STEME, Stellaria media, = US
LAMPU, Lamium purpureum, = US
SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
ERICA, Conyza canadensis, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Plant-Eval Interval

-1 DP-1 = 1 GLXMA Apr-27-2013
31 DP-1 = 1 GLXMA Apr-27-2013
59 DP-1 = 1 GLXMA Apr-27-2013